Basic Course Specification								
	Course Title	Course Code		Program on which the course is given				
Mechanical engineering drawing ME 252T			Bachelor					
l	Academic Year	Specialization (hr/week)	Pre-Requisites					
	2020 - 2021	Application3 hr./weekLab.3Credit3	ME151T					
Overall Course Objectives								
 This course provides more applications to mechanical Engineering Drawing -to relate the applications of drafting techniques to mechanical Engineering practice. This syllabus covers the requirements of the STCW-78, as amended. In particular Chapter III, Section A -III/2 for the function "Marine Engineering at the management Level", STCW-78, as amended. The syllabus is so designed With the guide of IMO Modelcourse7.02, version 2013, function1. 								
Cours	e Learning Outcomes. I	By successful completion of the cou	irse ea	ach stude	ent wil	l be	able	to:
Торіс				7th Week Assessment	12 th Week Assessment	Class	Activities	Final Exam
 By successful completion of the course each student will be able to: 1) Apply essential facts, fundamentals, concepts, principles and theories relevant to Mechanical Engineering. 					\checkmark			
 2)Use the computer based graphics and modeling software to design parts 					\checkmark			\checkmark
 3)Demonstrate individually the drawings of plan, elevation and cross sections of machine parts 				\checkmark	\checkmark	N	1	\checkmark
• 4) Acquire the basic knowledge of CAD drawing tools.					\checkmark			\checkmark
		Course Content						
Lec./ Week #		Торіс		Theoretical	Application		Lab.	
1	-AutoCAD refreshment -Assembly drawing with and marine engineering	applications in mech., industrial,	6	0	3		3	
2	-2-D drawing revision -Assembly drawing with and marine engineering	applications in mech., industrial,	6	0	3		3	
3	-Creation of blocks. -Assembly drawing with symbols	applications and machining	6	0	3		3	3
4	4 -Blocks Assembly -Freeband sketching				3		3	3

Mechanical Engineering Drawing

Course Content						
Lec./ Week #	Торіс	Hrs.#	Theoretical	Application	Lab.	
5	-Blocks Assembly -Conventional representation(Fasteners, power screw and assembly drawing applications)	6	0	3	3	
6	 The use of design center blocks. Conventional representation (locking devices) and assembly drawing applications. 	6	0	3	3	
7	Solid modeling, primitives and Boolean operations - 7th Week Exam	6	0	3	3	
8	Solid modeling, primitives and Boolean operations. Conventional representation (keys and pins) and assembly drawing applications	6	0	3	3	
9	-Creating solid models from 2-D polylines. -Conventional representation (welding) and assembly drawing applications.	6	0	3	3	
10	-Creating solid models from 2-D polylines. -Conventional representation(springs)and assembly drawing applications	6	0	3	3	
11	-Viewing and modifying solids. -Conventional representation (gears) and assembly drawing applications	6	0	3	3	
12	-Solids editing. -Surface Finish and assembly drawing applications conventional representation(Bearings)+12thWeek Exam	6	0	3	3	
13	-Assembly of 3D exercise -Geometrical Tolerance and assembly drawing applications	6	0	3	3	
14	-Assembly of 3D exercise -Limits and fits and assembly drawing applications	6	0	3	3	
15	The use of engineering design and mathematical software. Hydraulic symbols and revision	6	0	3	3	
16	Final Assessment					
	Total Hours	90		45	45	

Teaching & Learning Methods	Facilities Required for Teaching & Learning Methods				
Apply by example	Computers				
Encourage critical thinking with applications to	Computer Auto CAD software				
engineering drawing	Smart board				

Students Assessment Methods						
Assessment Schedule						
Assessment#1		Week 7				
Assessment#2		Week 12				
Assessment#3		Class Activities				
Assessment#4		Week 16				
Grading Method						
7th Week Assessment	Written Exam		30%			
12 th week Assessment	Written Exam		20%			
Class Activities	Quiz - tutorial		10%			
Final Exam	Engineering drawings		40%			
		Total	100 %			
Staff Requirements						
Marine Chief Engineer/ Ph.D.						
Course Notes		Essential Books				
Mech. drawing prob. and solution. شاهين,	م. سعد	Auto CAD help guideSolid work help guide				
Recommended Book	S	Periodicals and Publications				
Boundy, "engineering Drawings", M Co, Latest Edition	lcGraw–Hill	None				
IMO References						

None

Accreditation Bodies

*Egyptian Authority for Maritime Safety (EAMS)

European Commission (EC)

*ISO (9001 – 2015) DNV-GL

*Central Evaluation and Accreditation Agency Hanover, Germany (ZEVA)

*Ministry of Education (KSA)

*Ministry of Higher Education (Greece)

*Ministry of Higher Education (Oman)

*Commission for Academic Accreditation (CAA), Ministry of higher Education (UAE)

*University of Plymouth, United Kingdom (dual degree)

Prepared by: Course Coordinator

Reviewed by: Head of Department

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Date: November 2020